Seat No.:	

# **NG-102**

#### November-2018

## B.C.A., Sem.-V

## **SEC-301(1): Software Project Management**

Tin	ne : 2:3	30 Ho	urs] [Max. Marks : 70	
1.	(A)	Ansv	wer the following:	
		(1)	Explain activities covered by Software Project Management along with SDLC.	7
		(2)	What is stakeholder? List and explain types of stakeholders.	7
			OR	
		(1)	Explain Step-1 (Identify Project scope and objectives) of project planning in detail.	7
		(2)	Write a note on Cost-Benefit analysis and Cash flow forecasting.	7
	(B)	Atte	mpt any <b>four</b> :	4
		(1)	is a planned activity.	
			(a) Project (c) Software	
			(b) Program (d) None of these	
		(2)	SDLC stands for	
			(a) Software Development Life Cycle	
			(b) Structure Development Life Cycle	
			(c) Software Design Life Cycle	
			(d) Structure Design Life Cycle	
		(3)	Forecast of inflation rates tends to be	
			(a) Certain (c) (a) and (b)	
			(b) Uncertain (d) None of above	
		(4)	cost includes staff costs.	
			(a) Setup cost (c) Operational cost	
			(b) Development cost (d) Common cost	

		(5)	Som	e products are har	nded over to the	he cl	lients at the end of project are called	
			(a)	Product	(	(c)	Deliverables	
			(b)	Program	(	(d)	All of above	
		(6)	PFD	stands for				
			(a)	Project Flow Dia	ngram (	(c)	Product Flow Diagram	
			(b)	Program Flow D	iagram (	(d)	Project Flow Design	
2.	(A)	Ansv	wer th	e following.				
		(1)	List	and explain eight	core Atern pr	incip	oles.	7
		(2)	Exp	lain various softwa	are effort estir	natio	on techniques.	7
					OR			
		(1)	Writ	te a brief note on V	Vaterfall mod	el.		7
		(2)	Wha	at is "Estimating	by Analogy	" ?	Find Euclidean Distance for the	
				owing:				7
				Module	Input	4	Output	
				A	9		15	
			Nov	B modula C require	10	112	outputs. Which of module A or B is	
				closest analogy in			_	
	(B)	Atte		ny <b>four</b> :				4
	( )	(1)	-	erfall model can b	e expanded in	to		
			(a)	W-Process mode	_	(c)	Incremental model	
			(b)	Spiral model		(d)	V-Process model	
		(2)	Eacl	n loop of spiral is o	called	•		
			(a)	Stage	(	(c)	Phase	
			(b)	Circle		(d)	loop	
		(3)	Late		nt require mo	dific	cations to earlier increment. This is	
			(a)	Software Breaka	ge (	(c)	Time-Boxing	
			(b)	Gold Plating	(	(d)	None of these	
		(4)		OM stands for	·			
			(a)	Dynamic System	_			
			(b)	Design System I	_			
			(c)	Dynamic Structu None of these	ire Developm	ent I	vieinoa	
			(d)	None of these				
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(5)	Effort =*						
	(a) Product	(a) Productivity, constant					
	(c) Size, co	onstant					
(6)		•					
			) Knowledge Length of Code				
	( )	`	,				
			,				
Ansv	wer the following	ng:		7			
(1)	Construct a 1	network diagram for fo	ollowing. Find critical path and total				
	project duration	on.					
	Activity	Preceding Activity	Duration(Week)				
	A	_	10				
	В	_					
	С	A	8				
	D	A	7				
	Е	В	5				
	F	В	10				
(2)				7			
(2)				,			
(1)			etwork diagram	7			
				7			
` '				3			
				J			
		•	<del></del>				
			,				
(2)		`	y Bottom to Top				
(2)		<del></del>	ew Technique				
			_				
	• •		•				
	(2) 110,000	3	P.T.C	)			
	(6) Ansv (1) (2) (1) (2)	(a) Product (b) System (c) Size, co (d) Constar (6) KLOC stands (a) Kilo Lin (b) Thousan  Answer the followin (1) Construct a reproject duration  Activity  A B C D E F G H 1 (2) Explain risk p  (1) Describe the re (2) What is risk?  Attempt any three: (1) In a network of (a) Right to (b) Left to (c) Program (b) Project (c) Program	(a) Productivity, constant (b) System size, Productivity Rate (c) Size, constant (d) Constant, effort (6) KLOC stands for	(a) Productivity, constant (b) System size, Productivity Rate (c) Size, constant (d) Constant, effort (6) KLOC stands for (a) Kilo Lines of Code (c) Knowledge Length of Code (b) Thousand Lines of Code (d) None of these  Answer the following: (1) Construct a network diagram for following. Find critical path and total project duration.    Activity   Preceding Activity   Duration(Week)			

(c) out (d) event or condition that ed (c) (d) e = *	<u> </u>					
event or condition that ed  (c) (d) e = *	has positive or negative effect on a  Effort					
ed (c) (d) e = *	Effort					
e = * ffort						
e = * fort	Risk					
fort						
fort						
Effect						
l damage, Probability of o	ccurrence					
ng:						
e of resources.	7					
d value analysis ? List ar	nd explain methods of it. 7					
OR						
Write a note on Fixed Price Contract in detail.						
(2) List methods of Visualizing Progress. Explain any two in detail.						
Attempt any three:						
a secondary resource.						
(c)	Space					
(d)	Labour					
I slip lines indicates need	for					
eursor (c)	Implementation					
duling (d)	None of these					
(c)	EV/PV					
7.15	EV-PV					
(d)	fically one customer.					
(d) stem is created for speci	Bespoke					
· /	None of these					
estem is created for specieshelf (c)	number of failure is colled					
estem is created for specificshelf (c) (d) (vice time divide by the						
rstem is created for specir-shelf (c) (d)	Failure on demand					
٠	(d)					

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### November-2018

## B.C.A., Sem.-V

SEC-301(2): Advanced Java

Time: 2:30 Hours]							[Max. Marks: 70	0
1.	(A)	Ansv	wer th	e following:				
		(1)	Writ	te use of File class	and explain F	File class with	its constructors and	d
			meth	nods.				7
		(2)	How	objects can be writ	ten in file ? Exp	olain.		7
				OR				
		(1)		ch class is used to re nods.	ead records rand	omly from the	file? Explain with it	s 7
		(2)	Expl	lain FileOutputStrea	m class in depth	1.		7
	(B)	Ansv	ver th	e following: (Any f	our)			4
		(1)	Ran	dom access file are a	ılso known as			
			(a)	Data access file	(b)	Instance acces	ss file	
			(c)	Both of the above	(d)	None of the al	bove	
		(2)	Serialization means					
			(a)	Object to byte stre	am conversion			
			(b)	Byte to object stre	am conversion			
			(c)	Both of the above				
			(d)	None of the above	•			
		(3)	A memory location that is used to temporarily hold data is a					
			(a) ^	Stream	(b)	Buffer		
			(c)	Bu <mark>lk</mark> wark	(d)	Channel		
		(4)	The	packag	ge contains all th	ne classes you u	ise in file processing	
			(a)	Java.file	(b)	Java.io		
			(c)	Java.lang	(d)	Java.net		
		(5)	A	is collect	ion of fields tha	it contain data a	about an entity.	
			(a)	Record	(b)	Data		
			(c)	File	(d)	None of the al	bove	
		(6)	Filel	InputStream class is	provide capabil	ity to	disk file.	
			(a)	Read	(b)	Write		
			(c)	Read and write	(d)	Delete		
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2.	(A)	Ans	wer th	e following:			
		(1)		nt is container? Write nar	me of dif	fferent containers. Explain any two	7
		(2)	Exp	lain JLabel and JCheckBox	in depth		7
				OR			
		(1)				Applet. How can we add and remove vo additional applet methods.	7
		(2)		lain JButton and JCombobo	-		7
	(B)	Ans	wer th	e following: (Any <b>four</b> )			4
		(1)	AJP	anel is a			
			(a)	Component that holds oth	ner comp	onents	
			(b)	Swing component			
			(c)	Container			
			(d)	All of the above		160	
		(2)	The	container class derived from	m		
			(a)	Component	(b)	Windows	
			(c)	Panel	(d)	None of the above	
		(3)		method use to set	number (	of columns in JTextField.	
			(a) (c)	setColumns() Any of the above	(b) (d)	setLines() None of the above	
		(4)	JScr	rollPane jp =new JScrollPan	ne();		
			In ap scroll bars appear				
			(a)	Horizontally			
			(b)	Both horizontally and ver	rtically		
			(c)	Only if needed to display	the conto	ents	
			(d)	Always			
		(5)		method returns cu	rrent stat	e of JCheckBox.	
			(a)	isSelected()	(b)	isStatus()	
			(c)	Any of the above	(d)	None of the above	
		(6)	A cl	ass that respond to button of	elicks mu	st implement a(n)	
			(a)	ButtonListener	(b)	ItemListener	
			(c)	ClickListener	(d)	ActionListener	

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3.	(A)	Ansv	ver th	ne following:			
		(1)	Wha	at is use of Layout Mana	ger ? Explai	in GridLayout in depth.	7
		(2)	Diff	Ferentiate TCP and UD	P protocols	and explain ServerSocket class in	
			dept	th.			7
				(	OR		
		(1)	Wri	te overview of java.net p	ackage and	explain InetAddress class in depth.	7
		(2)	-	lain event driven progra dlers.	mming and	define terms : Event, Listeners and	7
	(B)	Ansv	wer th	ne following: (Any three	e)		3
		(1)	Han	dlers are			
			(a)	Methods	(b)	Classes	
			(c)	Interface	(d)	None of the above	
		(2)	Butt	ton click generates	even	nt.	
			(a)	Click	(b)	Action	
			(c)	Any of the above	(d)	None of the above	
		(3)		layout is used t	o arrange th	e components in stack.	
			(a)	Flow	(b)	Border	
			(c)	Grid	(d)	Card	
		(4)		package is used	l in network	ing applications.	
			(a)	Java.net	(b)	Java.networking	
			(c)	Java.socket	(d)	None of the above	
		(5)		class is used to	access the r	resources on the internet using web.	
			(a)	URL	(b)	URLServer	
			(c)	Socket	(d)	DatagramSocket	
4.	(A)	Ansv	ver th	ne following:			
		(1)	Wri	te steps for JDBC conne	ction.		7
		(2)	-	lain getConnection and otype.	createState	ement methods with their use and	7
					OR		
		(1)	Wri	te different types of driv	ers for JDB	C. Explain any two in depth.	7
		(2)	Wri	te Java steps to insert da	ta into Empl	loyee (id, name) table.	7
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Ans	wer th	e following: (Any three)		
(1)	For	loading the JDBC-ODBC driv	ver	method is used.
	(a)	forName()	(b)	loadDriver()
	(c)	getConnection()	(d)	None of the above
(2)		method creates the S	Statem	nent object for sending query to the
	data	base.		
	(a)	createStatement()	(b)	sendQuery()
	(c)	execute()	(d)	None of the above
(3)	For	getting a database result, the _		object is required.
	(a)	Statement	(b)	ResultSet
	(c)	Connection	(d)	Query
(4)	The	package is used	for da	ta Java Database Connectivity.
	(a)	Java.database	(b)	Java.db
	(c)	Java.sql	(d)	Java.io
(5)	ODI	BC stands for		
	(a)	Open database connection	(b)	Object database connection
	(c)	Object data connection	(d)	Open database connectivity
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(B)

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